7730

S/080/61/034/008/014/018 D204/D305

Heating power and combustibility...

1) "Flame tube" test (Ref. 7: S.T. Taubkin, Osnovy ognozashchity tsellyuloznykh materialov (Fundamentals of Fire Protection of Gellulose Materials). Izd. Min. konn. khoz. RSFSR. M. 1960; 2) Ignition and self-ignition temperatures were determined. It was found that the heating power of polyesters decreases if chlorine is introduced into the composition. Chlorine also decreases their inflammability. Galculations of the theoretical combustion temperature or the heating power can be used for the preliminary comparative estimate of the inflammability of polymers as well as of other organic compounds. There are 3 tables and 7 Soviet-bloc references.

SUBMITTED:

March 20, 1961

Card 4/4

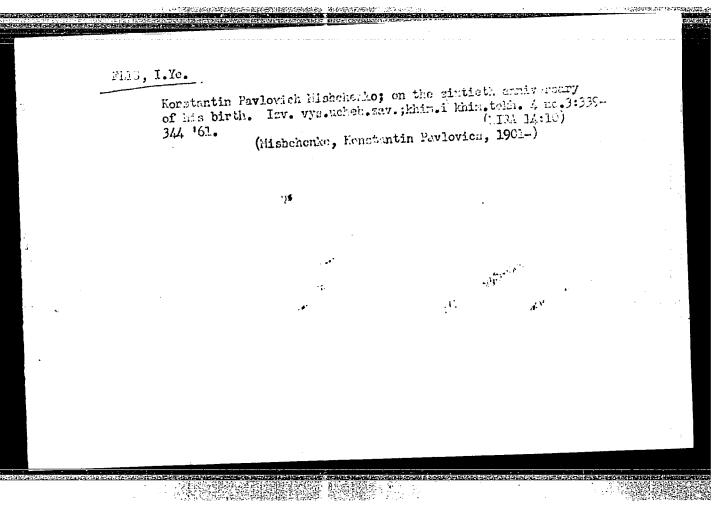
Pilot plant for the production of chlorine dioxide.

Pilot plant for the production of chlorine dioxide.

(MIRA 14:5)

(Chlorine oxide)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"



FLIS, I.Ve.; BYNYAYEVA, M.K.

Oxidation potentials dependence on the pH in solutions of permanganate, chlorate, bichromate-chromate, and hydrogen peroxide. Zhur. fiz. khim. 35 no.5:1003-1009 My '61.

(MIRA 16:7)

1. Leningradskiy tekhnologicheskiy institut.

(Electrochemistry) (Oxidation)

FLIS, I.Ye., doktor khimicheskikh nauk; TUMANOVA, T.A., kand.khimicheskikh nauk

Improving the performance of glass electrodes in the alkaline zone
at temperatures from 10° to 50°. Trudy LTITSEP no.11:99-102 '62.

(MIRA 16:10)

FLIS, I.Ye., doktor khimicheskikh nauk; MISHCHENKO, K.P., doktor khimicheskikh nauk; TUMANOVA, T.A., kand.khimicheskikh nauk

Thermochemical study of the reduction reaction of chlorine dioxide and chlorine with sulfuric anhydride in water solutions at various temperatures. Trudy LTITSBP no.11:94-98 '62. (MIRA 16:10)

VOROB'YEV, I.M., inzh.; FLIS, I.Ye., doktor khim. nauk

Electrochemical behavior of titanium in hypochlorite solutions.

Trudy LTITSEF no.11:103-110 '62. (MIRA 16:10)

PUSENOK, G.I., inzh.; FLIS, I.Ye., doktor khim.nauk; MISHCHENKO, K.P., doktor khim. nauk; BYNYAYEVA, M.K., kand.khim. nauk

Spectrophotometric method for studying the equilibrium of the dissociation of hypobromous acid in aqueous solutions. Trudy LTITSBP no.11:118-123 '62. (MIRA 16:10)

ARKHIPOVA, G.P., inzh.; FLIS, I.Ye., doktor khim.nauk; MISHCHENKO, K.P., doktor khim.nauk

Thermochemical study of the reduction of potassium chlorate by sulfite in an acid medium. Trudy LTITSBP no.11:124-127 '62.

Spectrophotometric analysis of acid sulfite solutions. 128-133 (MIRA 16:10)

FLIS, I.Ye.; MISHCHENKO, K.P.; SALNIS, K.Yu.

Study of the equilibrium ClO3 + Cl + 2H ClO2 + 0.5Cl2 + H2O at various temperatures. Zhur.prikl.khim. 35 no.3:667-669 Mr (MIRA 15:4)

162. (Chlorine oxides) (Phase rule and equilibrium)

KUSTODINA, V.A.; MISHCHENKO, K.P.; FLIS, I.Ye.

Thermodynamics of formation of chlorine monoxide in carbon tetrachloride. Zhur.prikl.khim. 35 no.6:1374-1376 Je '62.

(MIRA 15:7)

(Chlorine oxides) (Carbon tetrachloride)

(Heat of formation)

BARAM, A.A.; KOKUSHKIN, O.A.; MISHCHENKO, K.P.; FLIS, I.Ye.

Laboratory study of the extraction of a complex catalyst from polyethylene dispersions by methanol in rotary apparatus. Plast. massy no.8:7-11 '63. (MIRA 16:8)

(Polyethylene) (Catalysts)

BARAM, A.A.; KOKUSHKIN, O.A.; MISHCHENKO, K.P.; FLIS, I.Ye.; ARKHIPOVA, Z.V.; VAVILOVA, I.I.; MONAKHOVA, Ye.V.; SHCHUTSKIY, S.V.

Recovery of complex catalysts from dispersions of polyethylene by means of methanol in a rotary apparatus. Plast. massy no.11:58-59 '63. (MIRA 16:12)

Use of titanium electrode in the quinhydrone method of de ≇rmination of pH of solutions. Zav.lab. 29 no.5:538-540 '63. (MIRA 16:5)

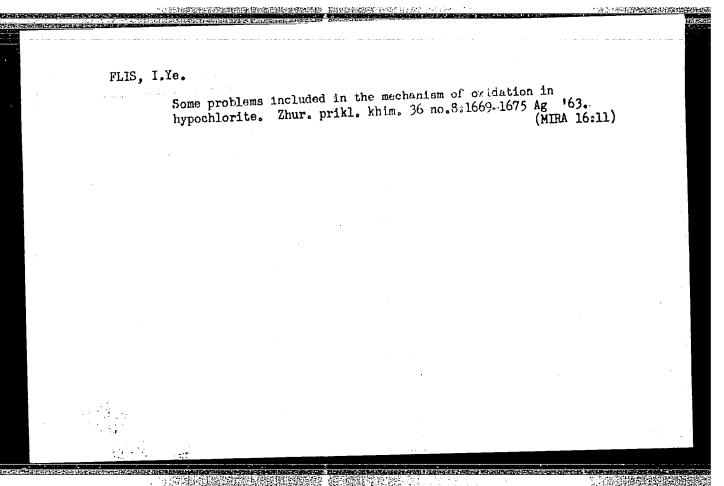
1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy promyshlennosti.

(Quinhydrone) (Electrodes, Titanium)

(Hydrogen-ion concentration) (Potentiometric analysis)

OSINSKA-TANEVSKA, S.M.; BYNYAYEVA, M.K.; MISHCHENKO, K.P.; FLIS, I.Ye.

Spectrophotometric determination of the constants of dissociation of hypochlorous acid at various temperatures. Zhur.prikl.khtig. 36 no.6:1212-1217 Je '63. (MIRA 16:8) (Hypochlorous acid) (Dissociation) (Spectrophotometry)



FLIS, I.Ye. (Leningrad); VOROB'YEV, I.M. (Leningrad); Prinimal uchastiye VERT, Zh.L. (Leningrad)

Kinetic studies of processes taking place on the platinum electrode in hypochlorite solutions. Zhur.fiz.khim. 37 no.8:1805-1812 Ag '63. (MIRA 16:9)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy promyshlennosti.
(Electrodes, Platinum) (Hypochlorites)

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TTLE: Effect of	mater on polyester re	sins and glass plastics be	ased on them
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from the water, almost the total amount of bicarbonate being extracted during the first 2-3 months. Resin PN-3 does not change the C17 concentration of the "sea water", whereas the Cl $^{-}$ ions are washed out from glass plastic. This phenomenon a smaller extent) is also characteristic for tests MA-3 and the glass raged on it. The concentration of sultate this in the water the ont ions are washed out more rapidly from glass clistific of the 1900 the the MA-3 glass plastics. The Catt concentration to sea water cartes slightly after resins are kept in it. The data obtained on the variation of and K^{\pm} ions in sea water do not permit a safe conclusion as to the tendency toward their absorption and washing out by the samples, because the absolute valwes of the changes lie within the range of possible analytical errors. The resins definitely do not cause the Na⁺ ion concentration to change in sea water. Glass plastics based on resin PN-3 show a tendency to washing out of Na⁺ ions after 20 days in the water; thereafter, the absorption of Na⁺ ions by the samples is noticed. The same tendency to a less pronounced washing out of Nations is makes plastics based on MA-3 resin. The effect of sea water on the mechanical properties of resins and glass plastics shows that the bending strength and impact toughness change more significantly for PN-3 resin and its

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glass plastics than for MA-3 and its glass-plastics. "Thanks are due to L. A. Gladkaya and O. A. Mudrov for making the samples, and to G. N. Zubova for carrying out the analyses." Orig. art. has: 2 tables and 6 figures.

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ASSOCIATION: None

SURMITTED: 00

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NO REF SOV: 010

OTHER: 008

Card 3/3

Potentiometri: determination of the HSO3 \$\Rightarrow\$ 30\frac{2}{3}^{-} \rightarrow\$ H\$ equilibrium within 10-50° temperature range. Zhur. prikl. khim. 37 no.10: 2306-2309 0 '64. (MIRA 17:11)

DOBRYSHIN, K.D.; FLIS, I.Ye.; FISH, S.I.

Study of the dissolution processes of chlorine dioxide and chlorine in the formation of bleaching solutions. Zhur. prikl. khim. 37 no.11:2382-2387 N 164 (MIRA 18:1)

FLIS, I.Ye.

Analysis of some processes in the preparation of sulfite cooking solutions. Trudy LTITSBP no.13:52-56 164. (MIRA 18:2)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"

FLIS, I.Yo.; TUMANOVA, T.A.; ZUBOVA, G.M.; NIKITINA, N F.

Methodology of the analysis of the mineral composition of natural water. Trudy LTITSBP no.13:57-61 64.

Water absorption and ion adsorption from the aqueous electrolyte solutions by some polye ter resins and glass reinforced plastics made on their base. Ibid.:62-67 (MIRA 18:2)

FLIS, I.Ye.; TUMANOVA, T.A.; ZUBOVA, G.M.

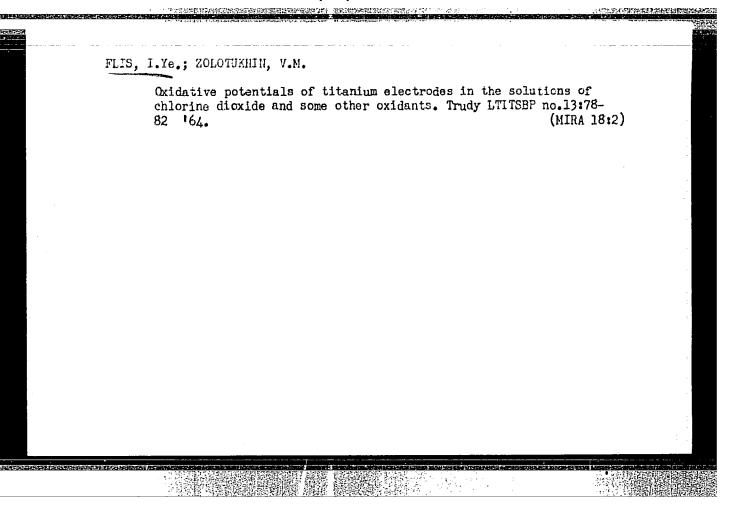
Potentiometric analysis of chlorine dioxide and chlorite aqueous solutions. Trudy LTITSBP no.13:68-71 164.

Potentiometric determining of sulfur dioxide in Equeous solutions.
(MIRA 18:2)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"

FLIS, I.Ye.; SHIROKOVA, V.N.; DONSKAYA, Ye.V.

Potentiometric titration in the presence of hydrogen peroxide with the use of a platinum electrode. Report No.1. Trudy LTITSBP no.13:75-77 164. (MIRA 18:2)



BERNARDELLI, A.Yo.: TUMANOVA, T.A.; FLIS, I.Ye.

Automatic adiabetic calorimeter. Trudy LTITSBP no.14:166-170 '64. (MIRA 18:5)

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SOURCE:	Plasticheski	ye massy, no. 7, 1965, 46-48	1	
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the physical and mechanical pr those of resin II and its GRP			
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FLIS, I. G.; ARKHIPOVA, G.P.; MISHCHENKO, K.P.

Equilibria in aqueous solutions of sulfites at temperatures of 10 -35°. Zhur. prikl. khim. 38 no.7:1494-1500 Jl *65. (MIRA 18:7)

FLIS, I.Ys.

Thermodynamics of the processes and equilibrium in bleaching solutions of chlorine and hydrogen perbuide compounds at various temperatures. Report No.1. Trudy LTITSBP no.12:18-36

Kinetics and mechanism of oxidative processes in bleaching solutions of chlorine compounds. Report No.2. Ibid.: 37-49

(MIRA 18:8)

FLIS, I.Ye.; VOROB'YEV, I.M.

Electrochemistry of the oxidation-reduction processes in bleaching solutions and some other systems. Report No.3. Trudy LTITSBP no.12:50-64 164.

Mechanism of oxidation potentials in the bleaching solutions of hypochlorites on platinum and titanium electrodes. Report No.4. Ibid.:65-81 (MIRA 18:8)

BARAM, A.A.; MISHCHENKO, K.P., doktor khim.nauk, prof.; FLIS, I.Ye.

Mechanism, kinetics and intensification of the processes of admixture extraction from polymer dispersions. Trudy LTITSBP no.12:82-94 164. (MIRA 18:8)

FLIS, Janusz, mgr inz., st. asystent

Properties of filamentary crystals. Wiad chem 17 no. 6:353-368 Je '63.

1. Zaklad Fizykochemii Procesow Elektrodowych, Instytut Chemii Fizycznej, Polska Akademia Nauk, Warszawa.

FLIS, Janusz, mgr inz., st. asystent

Growth of filamentary crystals. Wiad chem 17 no. 5: 273-287 My 163.

 Zaklad Fizykochemii Procesow Elektrodowych, Instytut Chemii Fizycznej, Polska Akademia Nauk, Warszawa.

Electrical resistance of hydrogen-charged wild steel wires and iron whiskers. Bul chim PAN 12 no.11:809-815 '64.

1. Institute of Physical Chemistry of the Polish Academy of Sciences, Warsaw. Submitted September 23, 1964.

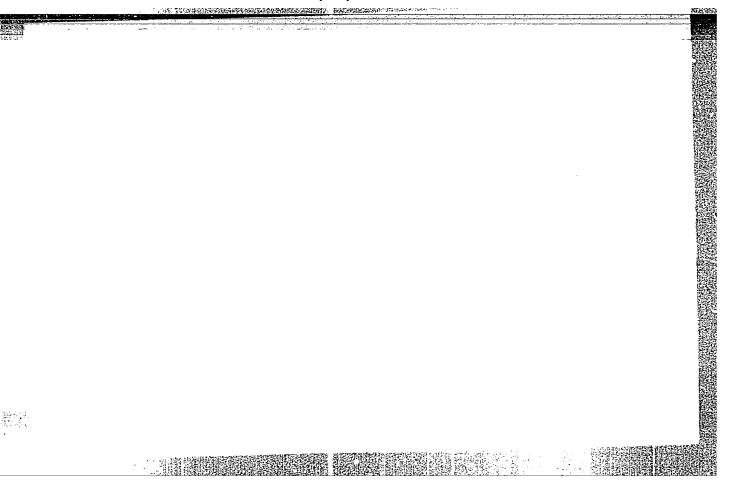
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"The Voice of a Geographer About the Statue on the Mountain Tourism Decoration." P. 10, (TURYSTA, No. 1, Jan. 1953, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.
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FLIS, JAN

Kras gipsowy Niecki Nidzianskiej. Warszawa, Panstwowe Wydawn. Naukowe, 1954. 73 p. (Polska Akademia Nauk. Instytut Geografii. Prace geograficzne, nr. 1) Gypsum region of Niecka Nidzianska. illus./

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.



FLIS, J.

FLIS, J. A geophysical sketch of the Mida River Fasin; the main features situation boundaries, and area of the region. p. 213

Vol. 27, no. 2 1956 CZASCPISMO, GECGRAFICZNE GECGRAPNY & GECLOGY Wroclaw, Foland

So: Fast European Accession, vol, 6, no. 3, March 1957

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"

HIJS, J.

Przegladowa mapa swiata (World Map in Outline); a review

F. 83 (PRZEGLAD GFOLD ZYDRY) Poland, Vol. 13, No. 2, Feb. 1957

SO: Monthly Index of European Accessions (AEEI) Vol. 6, No. 11, November 1957

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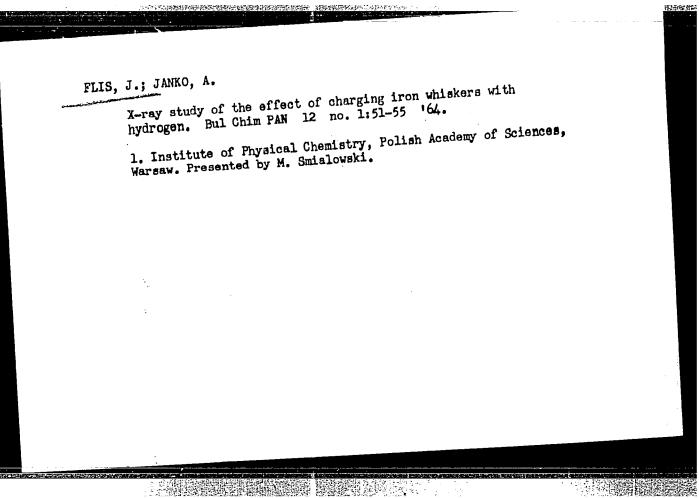
DOBROWOLSKA, Maria, prof. dr; FLIS, Jan, doc. dr.; MOCHMACKI, Rodion, doc. dr

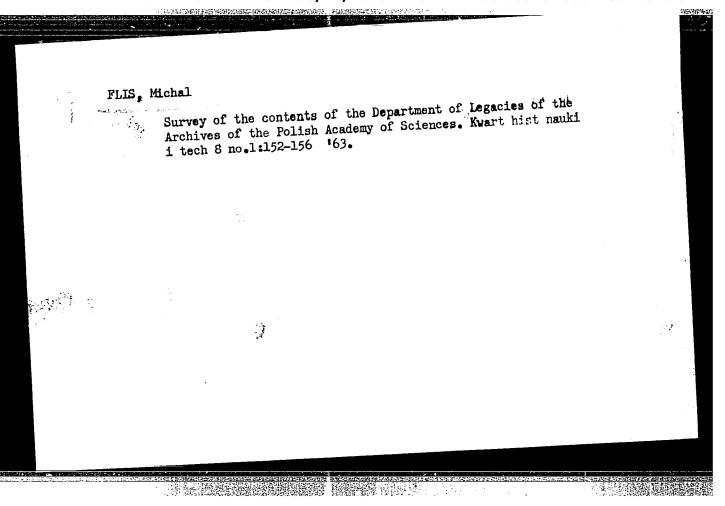
Works of the geographical departments of the Teacher's College in

Krakow during the 20-year period of the Polish People's Republic.

Przegl geogr 36 no.3:603-606 '64.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"





BURCHINSKIY, G.I., prof.; NOVIK, I.O., prof.; FLIS, S.A.; MAKLAKOVA, P.N.

Significance of focal infection of the oral cavity in the development of cardiovascular diseases. Vrach. delo no.10:26-33 U '61.

(MIRA 14:12)

1. Kafedra terapii (zav. - prof. G.I.Burchinskiy) i terapevtiohoskoy stomatologii (zav. - prof. I.O.Novik) stomatologicheskogo fakul' teta stomatologii (zav. - prof. I.O.Novik) stomatologicheskogo fakul' teta Kiyevskogo meditsinskogo instituta imeni akademika A.A.Bogomol'tea.

(MOUTH—SEPSIS) (CARDIOVASCULAR SYSTEM—DISEASES)

Employing comprehensive calculations. Stroi. truboprov. 8 no.12:
34-35 D '63. (MIRA 17:4)

1. Trest Ukrgazneftestroy, Kiyev.

FLIS, Ye., doktor khim. nauk; PUSENOK, G.I., inzh.; BUNYAYEVA, M.K., kand. khim.nauk

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Potentiometric method for the analysis of hypobromite aqueous solutions. Trudy LTITSBP no.11:111-117 '62. (MIRA 16:10)

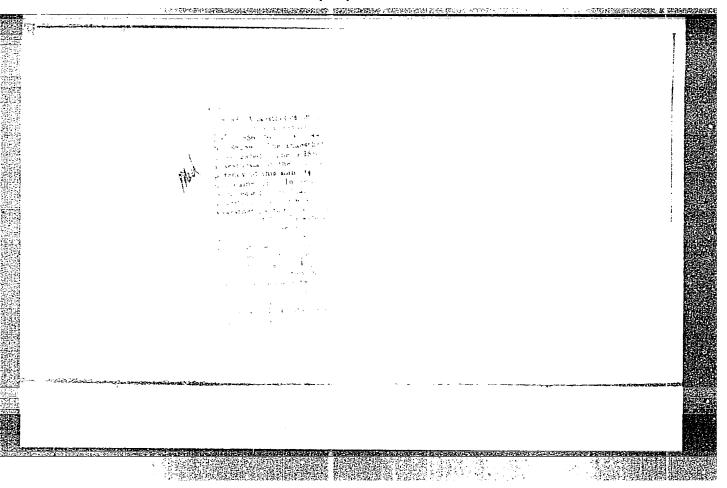
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"

Flis, Z. A. -- "Clinical Aspects and Treatment of Ulcerous Girgivostomatitis."

Kiev Order of Labor Fed Janner Med Inst imeni Academician A. A. Bogonolets,

Kiev, 1955 (Dissertation for the Degree of Candidate of Veterinary Sciences)

SO: Krizhnaya Letopis', No. 2h, Eoscow, Jun 55, pp 91-10h



The Control of the Co

TLIS, Z.A., kandidat moditsinskikh nauk (Kiyev)

Clinical aspects of ulceromembranous gingivostomatitis. Probl.
stom. 3:231-235 '56 (MIRA 10:5)

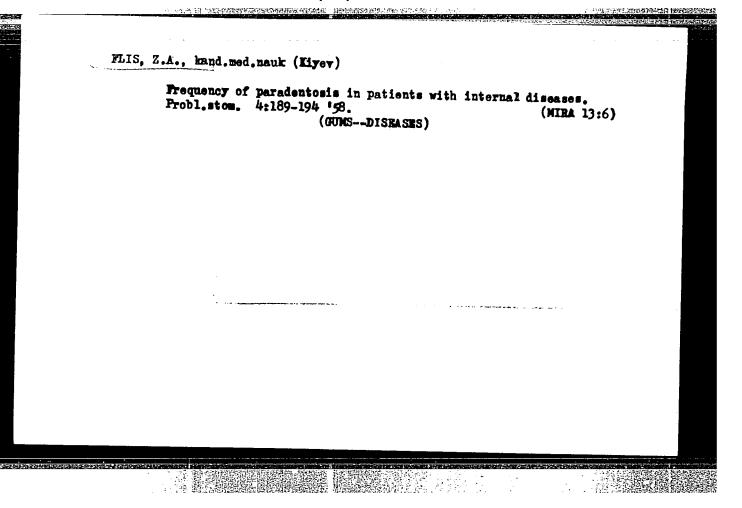
(OUMS_DISEASES) (MOUTH_DISEASES)

FLIS, Z.A.

Treatment of nonspecific ulcers of the mucous membrane of the oral cavity. Stomatologia 36 no.4:30 J1-Ag '57. (MIRA 10:11)

1. Iz kafedry terapevticheskoy stomatologii (zav. - doktor meditsinskikh nauk I.O.Novik) Kiyevskogo meditsinskogo stomatologicheskogo instituta

(MOUTH--ULCERS)



FLIS, Z.A., kand.med.nauk (Kiyev); DATSENKO, O.G., kand.med.nauk (Kiyev)

Agglutination reaction with blood serum and with the saliva of paradentosis patients in the process of treatment. Probl.stom.
4:289-294 1-58. (MIRA 13:6)

(AGGLUTINATION) (SALIVA) (GUMS--DISRASES)

DATSENKO, O.G., kand.med.nauk (Kiyev); FLIS, Z.A., kand.med.nauk (Kiyev)

Phagocytic reaction in treatment of patients with paradentesis.

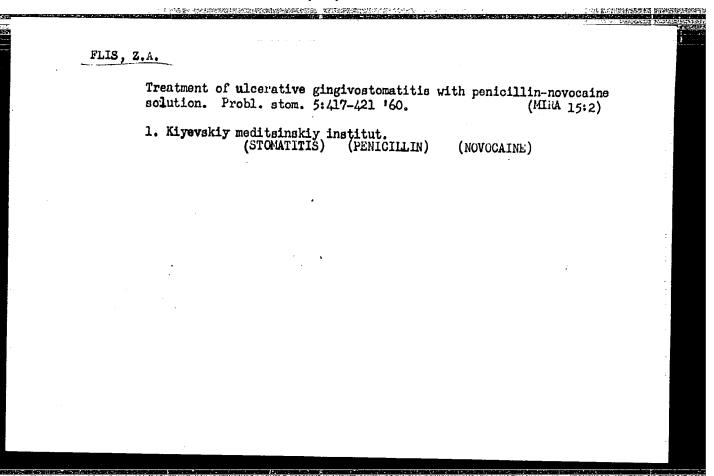
Probl.stom. 4:295-299 *58. (MIRA 13:6)

(GUNS--DISEASES) (PHAGOCTTOSIS)

FLIS, Z.A.

Use of a microbicidal novocaine solution among other drugs for the local treatment of the inflammatory-dystrophic form of pyorrhea alveolaris. Probl. stom. 5:57-62 '60. (MIRA 15:2)

1. Kiyevskiy meditsinskiy institut.
(GUMS__DISEASES) (BACTERICIDES) (NOVOCAINE)



SARZHEVSKAYA, L.A. (Kiyev); FLIS, Z.A. (Kiyev)

Functional characteristics of salivary gland activity in paradentosis. Probl. stom. 6:61-65 %2. (MIRA 16:3)

(GUMS—DISEASES) (SALIVARY GLANDS)

FLISEK, Tadeusz, mgr inz.

System problems of telephone exchanges. Przegl telekom 35
[i. e. 36] no.2:37-46 F '63.

1. Wydzielone Ethro Rozwojowe T-2 Oddział Gdansk.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"

FLISEK, Tadeusz, mgr inz.

General characteristics of the MCA-D automatic telephone crossbar exchange system designed in Telephone Equipment Plant T-2. Przegl telekom 36 [i.e. 37] no. 5:146-152 My 164.

1. Detached Development Office T-2, Gdansk Branch, Telephone Equipment Plant.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"

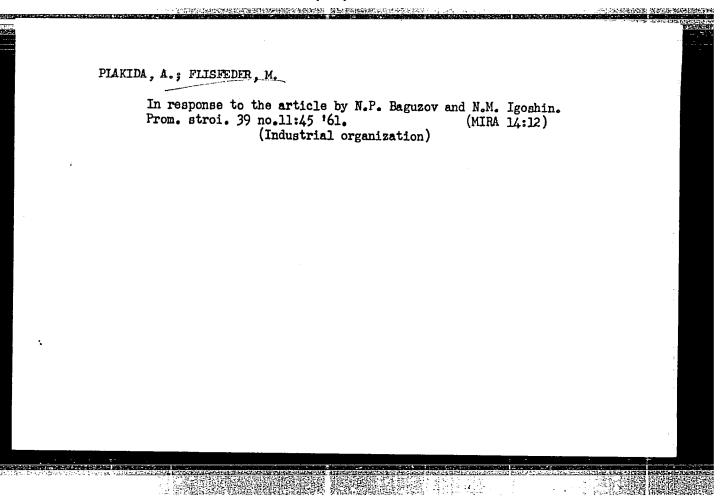
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	ACC NR: AP6023800 SOURCE CODE: PO/0022/65/000/008/0236/0243	
	AUTHOR: Flisek, Tadeusz (Master engineer)	
	ORG: Special Development Bureau T-2, Gdansk Branch, Gdansk (Wydzielone Biuro Bozwojowe T-2, Oddzial Gdanski)	
: :	TITLE: Control devices in the automated control	m
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	stages of commutation. The main function of this equipment is to	
	trunks and subscribers, also to actuate the means for the proper	
	Such control assemblies are either individual for one crossbar selector (Standard Elektrik Co. in West Germany), or graduated	
	within the entire office (Bell Co. in USA) The connections	
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	special-purpose and coordination between rural and subscriber stations. Orig. art. has: 8 figures. [JPRS] SUB_CODE: 177 5/ SUBM_DATE: none	
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922		

GOL'DFEL'D, M.L.; FLISFEDER, B.M.

The OF-46 program-controlled jig-boring machine. Biul.tekh.-ekon. inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. no.9:35-38 (MIRA 15:9)

(Drilling and boring machinery)

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PLAKIDA, A.K., inzh.; LOGACHEV, V.F., inzh.; FLISFEDER, M.R., inzh.

Introduction of the multiple machining of parts. Mashinostroenie no.2:3-9 Mr-Ap '62. (MIRA 15:4)

1. Proyektno-konstruktorskiy tekhnologicheskiy institut Odesskogo sovnarkhoza.

(Factory management) (Metal cutting)

PLAKIDA, A. K., insh.; BURDA, I. Kh., insh.; POCHKIN, Ye. G., insh.; FLISFEDER, M. R., insh.

TO SERVICE AND A SERVICE OF THE PROPERTY OF TH

Semiautomatic line for painting articles in an electrostatic field and heat-radiation drying. Mashinostroenie no.5:72-73 S-0 162. (MIRA 16:1)

1. Proyektae-konstruktorskiy tekhnologicheskiy institut Odesskogo soveta narodnogo khosyaystva.

(Painting, Industrial—Equipment and supplies)
(Drying apparatus)

FLISEK, J.

A few remarks concerning the typical design of a boiler plant with two La Mont-type boilers [2x2, 5.106kcal/h). p. 271. Gaz, Woda I Technika Sanitarna.

SCURCE: East European Accessions (EEAL), LC, Vol. 5, no. 3, March 1956.

FLISEK, J.

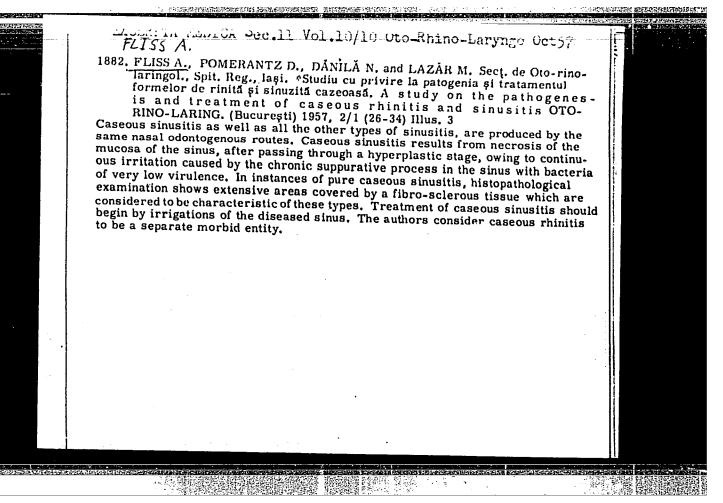
A new type of frame for a unit heater. p. 95.

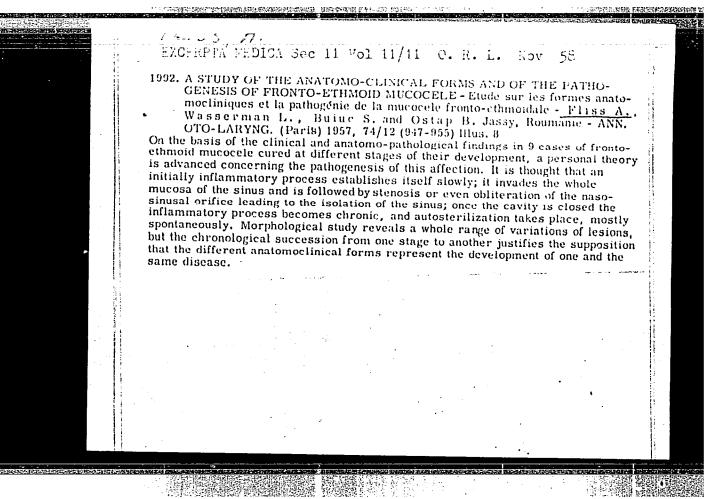
GAZ, WODA I TUCHRIKA JANITARNA. (Stowarzyszenie Maukowo-Techniczne Inzymierow i Technikow Sanitarnych, Orgrzewnictwe i Gazownictwa) Warazewa, Poland. Vol. 33, no. 3, March 1959.

Montaly List of East European Accessions EEAI LC, Vol. 9, no. 7, July 1959

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ITICOVICI, M.; BRAUNER, E.; FLISS, A.; CUCIUREANU, G.; NICOLAE, G.;
                                                 MORUZI, H.
                                                 Two cases of anthrax infection with pharyngeal localization.
                                               Rev. igiena microb. epidem., Bucur. No.2:60-63 Apr-June 54.
                                                                                                    (ANTHRAX
                                                                                                                        pharyngeal, case reports)
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                                                                                                                         anthrax, case reports)
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PLISSKIY, M.M.; VESELOVSKAYA, I.Ye.; DZHAGATSPANYAN, R.V.

Destruction of graphite anodes in the electrolysis of sodium chloride in the presence of sulfate ions. Zhur. prikl. khim. 33 no.8:1901-1903 Ag '60.

(Electrodes, Carbon) (Electrolysis) (Salt)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9"

Anodic process on graphite in the electrolysis of sodium chloride in the presence of sulfate ions. Zhur.prikl.khim. 34 no.ll:2483-2487 N '61. (Sodium chloride) (Sulfates)

(Sulfates)

VESELOVSKAYA, I.Ye.; FLISSKIY, M.M.; DZHAGATSPANYAN, R.V.; MOROCHKO, L.V.

Study of the adsorption of sulfate ion on a graphite anode under conditions of chloride electrolysis. Zhur. prikl. khim. 36 no.10:2179-2183 0 '63. (MIRA 17:1)

KUCHINSKIY, Ye.M.; LIPIKHIN, N.P.; FLISSKIY, M.M.

Study of the jorous structure of graphite electrodes. Zhur.
prikl. khim. 37 no.2:460-462 F *64.

(MIRA 17:9)

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ANTHOR. Flisskiy, M. M.; Surova, L. M.

The first of the anodic process during electrones.

The first chimitya, v. 1, no. 8, 1965, 1605-1616.

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The anode potential must be raised to 3.1 v (corresponding to current density of the selection of exone on platinum. This indicates a significant of this electrode reaction. It is relieved to the control of the platinum surface at 3.000 lt 10.000 miles of the peroxide type. Ottone is formed to interest.

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Pt.Pt0[02] ads + H20-2e + Pt.Pt0 + 03 + 2H

Thus, the kinetics and the mechanism of the anodic process on platinum in perchloric the first is apparently determined by the state of the platinum surface, which was another potential and the electrode temperators of the potential and the electrode temperators.

ASS C.ATION: none

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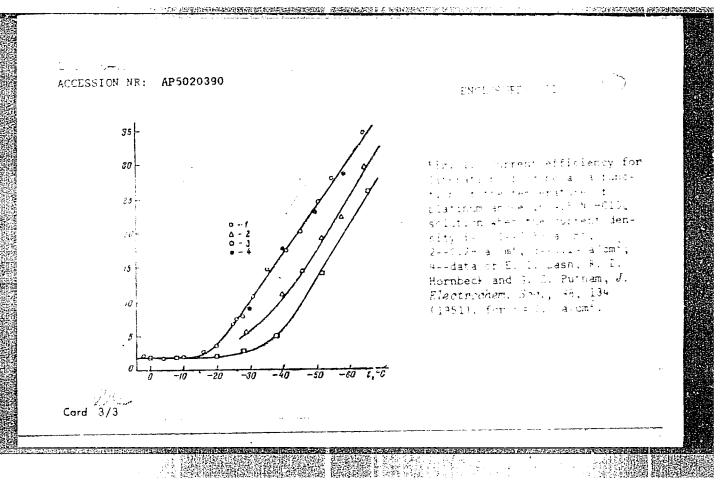
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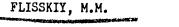
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FLISSKIY, M.M.; SUROVA, L.M.

Anodic process in the electrochemical formation of ezone and exygen on platimum. Elektrokhimiia 1 no.8:1005-1008 Ag '65. (MIRA 18:9)



Electrochemical behavior of ozone on platinum and gold electrodes in the presence of chlorine ions. Elektrokhimiia 1 no.11:1377-1380 N '65. (MIRA 18:11)

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(74)		
AUTHOR: Flisskiy, M. M.		
ORG: none		
TITLE: Electrochemical behavior of ozone at platinum and gold electrodes in the presence of chloride ions and and and gold electrodes in the presence of chloride ions and and gold electrodes in the presence of chloride ions and and gold electrodes in the presence of chloride ions and and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the presence of chloride ions and gold electrodes in the gold electrodes i		
SOURCE: Elektrokhimiya, v. 1, no. 11, 1965, 1377-1380		
TOPIC TAGS: gold, platinum, ozone, reduction, electrochemistry, cathode polarization, electrode potential		
ABSTRACT: In the presence of ozone a platinum electrode achieves a high oxidation potential but the jump in the potential of the ozone electrode has not been completely elucidated. The authors investigated this phenomenon, extending their study to include gold electrodes. The observed shift of the potentials of Pt and Au electrodes in the negative direction upon introduction of chloride ions into an acid solution saturated with ozone results from the interaction of surface oxides with chloride ions; oxychlorides and molecular chlorine form on the electrode surface. It was found that cathodic polarization of Pt and Au electrodes in acid solutions saturated with ozone leads to a reduction of the ozone to mo-		
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lecular oxygen. Apparently the reduction of ozone proceeds with the participation of oxychlorides as a result of which the maximum reduct current due to ozone is independent of the concentration of Cl ions. It was established that chloride ions have an inhibiting effect upon											- 1	- 1		
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FLISSKIY, M.M.

Kinetics of the electrochemical oxidation of chlorine ions on platinum in sulfuric acid solutions. Zhur. fiz. khim. 39 no. 1:186-189 Ja *65 (MIRA 19:1)

1. Submitted December 25, 1963.

GURTOVOY, Ya.M. FUIT, 1.A.

Organization of therapeutic occupations processes at a district antituberculosis dispensary Probl. tub. 42 nc.10:7-9 164. (MIRA 18:11)

1. Protivotuberkuleznyy dispanser No.13 (glavnyy vrach Ya.M. Gurtovoy), Moskva.

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FINOGEYEV, Petr Vasil'yevich; FLIT, Izabella Borisovna; MENCHINSKIY, V., otv. red.

[Nonbudgeted revenues; rules for their formation and use] Vnebiudzhetnye sredstva; poriadok ikh obrazovaniia i ispol'zovaniia. Moskva, Izd-vo "Finansy," 1964. 121 p. (MIRA 17:6)

RUSIN, Nikolay Petrovich, doktor geogr. nauk; FLIT, Liya Abramovna, zhurnalist; POZHIDAYEVA, M., red.; MARAKASOVA, L.P., tekhn. red.;

[Man changes the climate]Chelovek meniaet klimat. Moskva, Sovetskaia Rossiia, 1962. 128 p. (MIRA 16:3) (Climatology)

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FLIT, S. M.

FLIT, S. M. - st. nauchn. sotr. 1 POLYAKOV, A. A. - kand. tekhn. nauk 1 KUDRYAVTSEV, O. K. - o. st. nauchin. sotr. GUREVICH, L. V. - Kand. tekhn. nauk KHRUNOV, N. P. - Kand. tekhn. nauk

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Akademiya kommunal'nogo khozyaystva im. K. D. Pamfilova

Osnovnyye Meropriyatiya po Obespecheniyu Bezopasnosti Dvisheniya V Gorodakh Page 79

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950.

Moscow, 1951

FLIT, V. E.

"The Distribution and Ecological Role of Daur Pika Colonies in Tuva."

Tenth Conference on Parsitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Epidemiology and Microbiology, AMS, USSR, Moscow

FLITMAN, L. M.

49-1-10/16

AUTHOR: Flitman, L.M.

TITLE: On a Boundary Problem for an Elastic Half-Space (Ob odnoy krayevoy zadache dlya uprugogo poluprostranstva)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 1, pp.105-106 (USSR)

ABSTRACT: It is known that any solution (u, v, w) of the dynamic equations of the theory of elasticity:

$$(\lambda + \mu)$$
 grad div $\overline{u} + \mu \Delta \overline{u} - \rho \frac{\partial^2 \overline{u}}{\partial t^2} = 0$ (Eq.1)

can be put into the form:

$$\overline{u} = \operatorname{grad} \varphi + \operatorname{rot} \overline{\psi}, \quad \overline{\psi} = \overline{1}\psi_1 + \overline{1}\psi_2 + \overline{k}\psi_3 \quad (\mathbb{E}q'.2)$$

where:

$$\Delta \psi - \frac{1}{a^2} - \frac{\partial^2 \psi}{\partial t^2} = 0$$
, $a = \sqrt{\frac{\lambda + 2\mu}{\rho}}$ (Eq.3)

and:

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On a Boundary Problem for an Elastic Half-Space.

$$\Delta \overline{\psi} - \frac{1}{b^2} \frac{\partial^2 \overline{\psi}}{\partial t^2} = 0$$
, div $\overline{\psi} = 0$, $b = \sqrt{\frac{n}{\rho}}$. (Eq. 4)

Here u, v, w are the components of the displacement vector in a Cartesian system of coordinates, ρ is the density, λ and μ are the Lame coefficients and a and b the velocities of longitudinal and transverse waves respectively. The converse is also true: if φ and ψ satisfy **Mark 3**: and **16**: then, **Mark 2**: (2) is a solution of Eq. (1). The difficulty in solving the boundary problems for Eq. (3) and Eq. (4) consists in that ψ and ψ enter into the boundary conditions in such a way that it is impossible to formulate the problem for ψ and ψ separately. However, can be separated into boundary conditions for ψ and ψ respectively with the help of Eqs. (3) and (4) and the initial conditions. These boundary conditions are z=0

 $\sigma_{zz} = f_1(x, y, t), \quad u = f_2(x, y, t), \quad v = f_3(x, y, t) \quad (Eq.5)$

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On a Boundary Problem for an Elastic Half-Space.

$$\tau_{xz} = f_1(x, y, t), \tau_{yz} = f_2(x, y, t), w = f_3(x, y, t),$$
 (6)

where σ_{22} , τ_{xz} , τ_{yz} are certain components of the stress tensor. It is shown that the boundary problem (Eq.(6)) can be transformed at z=0 into the form:

$$\frac{\delta \varphi}{\delta z} = \alpha_{1}(x, y, t), \quad \phi_{1} = \alpha_{2}(x, y, t), \\
\phi_{2} = \alpha_{3}(x, y, t), \quad \frac{\delta \phi_{3}}{\delta z} = \alpha_{4}(x, y, t).$$
(11)

In transforming Eqs.(5) and (6) into the form of Eq.(11) it was assumed that φ and $\overline{\varphi}$ have second order derivatives which are continuous up to the boundary. This is the case if the boundary is sufficiently smooth, the boundary and initial conditions are also sufficiently smooth and the coupling conditions between them are of Card 3/4 sufficiently high order. It is therefore necessary that

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On a Boundary Problem for an Elastic Half-Space.

f₁ in Eqs.(5) and (6) should have continuous derivatives up to the fourth order; similar smoothness is required in the initial and coupling conditions. Separation of the boundary conditions leads to interesting physical consequences. It is possible to choose f₁ in such a way that when a longitudinal wave is incident on a plane boundary only the longitudinal wave will be reflected, and when a transverse wave is incident only the transverse wave will be reflected. Let, for example, f₁ = 0 and suppose that the initial excitation is purely longitudinal or purely transverse and occurs in the region which does not have common points with the boundary. In that case it follows from Eq.(11) that only longitudinal or only transverse waves will be reflected, i.e., the elastic body behaves like an ideal gas executing small oscillations.

ASSOCIATION: Ac. of Sc. USSR, Institute of Physics of the Earth. (Akademiya Nauk SSSR, Institut Fiziki Zemli)

SUBMITTED: May 21, 1957.

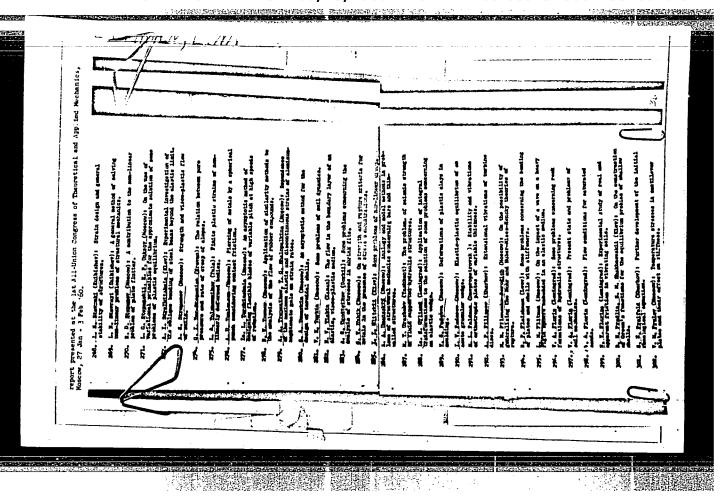
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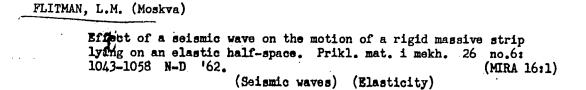
Card 4/4

FLITMAN, L.M. (Moskva)

Mixed boundary problem for the wave equation. Prikl.mat. 1 mekh.
22 no.6:829-832 M-D *58. (MIRA 11:12)

(Differential equations, Fartial)





ACCESSION NO: AP3004109

\$/0040/63/027/004/0618/0628

AUTHOR: Flitman, L. M. (Moscow)

TITLE: Waves generated by instantaneous explosion in continuous elastic media

SOURCE: Prikladnaya matematika i mekhanika, v. 27, no. 4, 1963, 618-628

TOPIC TAGS: instantaneous explosion, wave propagation, wave equation, transverse wave front, primary wave, secondary wave, toroidal front

ABSTRACT: The plane problem of wave propagation along the band width ℓ in the x-plane has been studied analytically. The medium is assumed homogeneous prior to the explosion. The wave equations are written under zero initial conditions and at y = 0, $-\ell < x < 0$ the boundary conditions are stated as

$$\sigma_{vy}^{+} = \sigma_{vy}^{-}, \quad v^{+} = v^{-}, \quad \tau_{xy}^{+} = \tau_{xy}^{-} = \tau = \text{const}$$
 (1)

where v is displacement along y axis. The process of explosion is depicted as the growth of a plane transverse wave front with longitudinal and transverse cylindrical wave fronts on the boundaries. From symmetry considerations the right boundary displacement is treated alone as the sum of three waves: primary wave originating

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ACCESSION NO: AP3004109

at the right side, primary wave moving in from left boundary, and secondary waves. The potential functions for longitudinal and transverse primary waves yield respectively

$$\varphi_1(r, 0, t) = \frac{8 \sqrt{2} \gamma m_0}{15 \pi} \frac{\tau}{a^2 p} \sin 0M \left(-\gamma \cos \theta\right) \frac{(at-r)^{\theta/2}}{\sqrt{r}} . \qquad (2)$$

$$\psi_1(r,0,t) = \frac{4 \sqrt{2} n_0}{15 \pi} \frac{\tau}{b^2 \rho} \frac{\cos 20}{\cos \theta} K(0) \frac{(bt-r)^{4/4}}{\sqrt{r}}$$
 (3)

where

$$K(0) = M(-\cos 0) \qquad (0 < 0 < \pi - \arccos \gamma)$$
 (4)

The analysis is extended to the spatial propagation along circular radius ℓ , and it is shown that only asymptotic solutions are possible for this case under special limiting conditions. The propagation is studied as primary transverse and longitudinal waves with toroidal fronts. The analogous equation for toroidal prefront expansion with at $<<\ell$, a^{2m} , $\frac{\lambda+2\mu}{2}$, (5)

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gives

$$w = \frac{4}{3\pi} \frac{\tau_0 \sin \alpha \sin \theta / 2}{\rho b^2} \frac{(bt - r)^{3/8}}{\cos \theta} \frac{1}{\sqrt{r}}$$
 (6)

"The author expresses his gratitude to N. V. Zvolinskiy and A. A. Gvozdev for their help and advice in this work." Orig. art. has 40 equations and 10 figures.

ASSOCIATION: none

SUBMITTED: 01Apr63

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: PH

NO REF SOV: 009

OTHER: 003

Card 3/3

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ACC NR: AP6005836

SOURCE CODE: UR/0387/55/000/010/0057/0062

AUTHOR: Molotova, L. V.; Flitman, L. M.

ORG: Institute of Physics of the Earth, Academy of Sciences SSSR (Institut fiziki

Zemli Akademii nauk SSSR)

TITLE: Displacements in an elastic medium caused by a plastic wave

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 10, 1965, 57-62

TOPIC TAGS: seismic wave, elastic, wave, wave mechanics

ABSTRACT: The authors consider elastic oscillations on the external surface of a sphere with a radius which increases according to a given law (with the velocity of the longitudinal waves at the initial moment and then gradually decreasing in speed). The constant normal stresses on the surface of the sphere are given. The moving spherical surface simulates a plastic wave front. The radiated elastic wave is studied as a function of the form of the hodograph for the plastic wave. Analytical expressions are derived for displacements in the elastic wave assuming an invariable stress at the interface between the elastic and plastic regions. The theoretical results are compared with the solution given by Sharpe (J. A. Sharpe, "The Production of Elastic Waves by Explosion Pressures", Geophys., 7, No 2, 1942). It is shown that there is a difference between the forms of displacements U_1 and U_2 (where the index 1 indicates

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displacements caused by placements calculated i

displacements caused by the action of the plastic wave, and the index 2 indicates displacements calculated in conformity with Sharpe's theory). The effect on the plastic wave side is an increase in the duration of U_1 as compared with U_2 due to a less abrupt arrival. This means that the absolute value of the amplitude spectrum S_1 goes further into the low frequency range than S_2 . The experimental data indicate an extremely rapid attenuation of plastic waves with distance from the source. It is suggested that further studies in this field should not be limited to constant stress at the plastic wave front since this condition does not agree with experimental data. In conclusion the authors consider it their pleasant duty to thank N. V. Zvolinskiy and Yu. I. Vasil'yev for discussion of this work. Orig. art. has: 2 figures, 14 formulas.

SUB CODE: 08,20 / SUBH DATE: 18Mar65/ ORIG REF: 006/ OTH REF: 002

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320018-9

L 38709-66 ___EWT(1). SOURCE CODE: UR/000/65/000/000/0432/0443 ACC NR: AT6016916 (N) 334 AUTHOR: Zvolinskiy, N. V.; Flitman, L. M.; Kostrov, B. V.; Afanas yev, V. A. BII ORG: Institute of Physics of the Earth, AN SSSR, Moscow (Institut fiziki Zemli AN SSSR); Institute of Problems of Mechanics, Academy of Sciences, SSSR (Institut problem mekhaniki Akademii nauk SSSR) TITLE: Some problems in the diffraction of elastic waves SOURCE: International Symposium on Applications of the Theory of Functions of Continuum Mechanics. Tiflis, 1963. Prilozheniya teorii funktsiy v mekhanike sploshnoy sredy. t. 1: Mekhanika tverdogo tela (Applications of the theory of functions in continuum mechanics. v. 1: Mechanics of solids); trudy simpoziuma. Moscow, Izd-vo Nauka, 1965, 432-443 TOPIC TAGS: elasticity theory, partial differential equation, integral equation, boundary value problem, approximate solution ABSTRACT: Three problems are studied: (1) That of waves formed in an elastic medium as a result of momentary disturbance of the continuum along an infinitely long plane strip of finite width. The dynamic equations of elasticity theory are solved under boundary value conditions corresponding to time with initial conditions zero. The problem is shown to be reducible to the Wiener-Hopf problem; (2) The problem of motion under the action of a plane wave of a solid infinite strip in an elastic space. This Card 1/2